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PRE-APPEAL BRIEF REQUEST FOR REVIEW		Docket Number (Optional)	
		67,108-322; Rai 4-2	
CERTIFICATE OF FACSIMILE I hereby certify that this Pre-Appeal Brief Request For Review and Notice of Appeal are being facsimile transmitted to (571) 273-8300.	Application N	umber	Filed
	10/717,0	65	11/19/2003
on 20 July 2009 ( )	First Named Inventor		
Signature WAS Call Call	Rai, Vikram		
Typed or printed Theresa Palmateer	Art Unit	E	xaminer
Typed or printed Theresa Palmateer name	2617		Cho, Un C.
Applicant requests review of the final rejection in the above-identified application. No amendments are being filed with this request.			
This request is being filed with a notice of appeal.			
The review is requested for the reason(s) stated on the attached sheet(s).  Note: No more than five (5) pages may be provided.			
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applicant/inventor.	7	101	)
		1 (18	ignature
assignee of record of the entire interest. See 37 CFR 3.71. Stalement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)	David J∫ Gaskey  Typed or printed name		
attorney or agent of record.  Registration number.  37,139	(248	988-8360	
Registration number	Telephone number		
attorney or agent acting under 37 CFR 1.34.	20 July 2009		
Registration number if acting under 37 CFR 1.34	Date		
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required.  Submit multiple forms if more than one signature is required, see below*.			
Total of 1 forms are submitted			

This collection of information is required by 35 U.S.C. 132. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11, 1.14 and 41.6. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the Individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mall Stop AF, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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forms are submitted.

## RECEIVED CENTRAL FAX CENTER JUL 2 0 2009

67,108-322 PUS1 Rai 4-2

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Rai, Vikram

Serial Number:

10/717,065

Filed:

11/19/2003

Group Art Unit:

2617

Examiner:

Cho, Un C.

Title:

METHOD AND APPARATUS FOR SCHEDULING FORWARD DATA BURSTS IN WIRELESS NETWORK

### REQUEST FOR PRE-APPEAL BRIEF REVIEW

Mail Stop AF
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

This paper is submitted along with the Notice of Appeal.

Applicant's invention provides a way of arranging a permanent virtual pipe on a communication channel that facilitates a unique manner of scheduling data bursts on that channel. In particular, the claims include a permanent virtual pipe comprising a plurality of different width virtual pipes and at least one burst segment of each data burst is scheduled on the widest of the pipes. There is nothing in the cited references that discloses or in any way suggests such an arrangement. Therefore, Applicant respectfully submits that there is no *prima facie* case of obviousness against any of the claims.

Claim 1 is reproduced here for convenience:

A method at a base station in a code division multiple access wireless network that transmits data bursts on a high-speed forward channel, the method comprising the steps of:

providing at least one permanent virtual pipe comprising a plurality of different width virtual pipes on the high-speed forward channel for

67,108-322 PUS1 Rai 4-2

transmission of the data bursts, at least one of the plurality of different width permanent virtual pipes being wider than another of the virtual pipes;

scheduling transmission of burst segments of the data bursts on the at least one permanent virtual pipe in a round-robin manner among different data bursts, at least one burst segment of each data burst being scheduled for transmission on the widest virtual pipe; and

transmitting the burst segments on the at least one virtual pipe in accordance with the scheduling.

Claim 12 is directed to a base station having a corresponding configuration.

The claims were finally rejected under 35 U.S.C. §103 based upon the proposed combination of Lee (US 2001/0021180) and Sindhushayana, et al. (US Patent No. 6,987,778) Applicant respectfully disagrees with the Examiner's position that Sindhushayana, et al. "remedies the deficiencies of Lee." The Examiner properly acknowledges that Lee "does not specifically disclose wherein the at least one permanent virtual pipe comprises a plurality of different width virtual pipes, at least one of the plurality of virtual pipes being wider than another of the virtual pipes, at least one burst segment of each data burst being scheduled for transmission on the widest virtual pipe."

Applicant respectfully submits that the different data rates used in the Sindhushayana, et al. reference do not provide that, either, because the data rates do not constitute different width virtual pipes and certainly none that are permanent. At best, using the Sindhushayana, et al. technique would result in using different data rates at different times on the high speed forward channel of Lee. That is not the same thing as providing a permanent virtual pipe comprising a plurality of pipes of different widths.

Additionally, the *Sindhushayana*, et al. reference does not include having at least one burst segment of each data burst scheduled on a widest virtual pipe. Even if the data rates of the *Sindhushayana*, et al. reference could be reasonably interpreted as different width virtual pipes,

67,108-322 PU\$1 Rai 4-2

the Sindhushayana, et al. reference does not schedule at least one burst segment of each data burst at the highest data rate. Instead, the Sindhushayana, et al. reference uses a technique that chooses a data rate based upon a DRC message from a mobile station.

For example, paragraph [0047], beginning at line 8, teaches that a remote station determines channel conditions and transmits a DRC message that requests a "low data rate packet" if the channel conditions are not favorable. The base station of the Sindhushayana, et al. reference then transmits packets according to parameters stored in the scheduling unit, which will include a low data rate. That is not the same as always having at least one burst segment scheduled at the highest possible rate. Therefore, even if the different data rates of the Sindhushayana, et al. reference hypothetically could reasonably be interpreted as different width virtual pipes, the Sindhushayana, et al. reference does not schedule at least one burst segment of each data burst at the highest data rate. Therefore, it is impossible to interpret the Sindhushayana, et al. reference as stated on page 5 of the Office Action where the Examiner contends that the reference teaches "at least one burst segment of each data burst being scheduled for transmission on the widest virtual pipe."

Paragraph [0049] of the Sindhushayana, et al. reference, beginning at line 17, teaches that the rate control algorithm provides a lower bound estimate for actual SINR during a next packet duration and determines a maximum data transmission rate that could be sustained based on the SINR lower bound estimate. Paragraph [0049] of the Sindhushayana, et al. reference also teaches using "a conservative measure of the data transmission rate at which the next packet can be received." In other words, the Sindhushayana, et al. reference does not always use the maximum data rate. It, therefore, cannot possibly always schedule at least one burst segment of a data burst at the highest data rate. It follows that it is impossible to interpret the reference as

67,108-322 PUS1 Rai 4-2

teaching scheduling at least one burst segment of each data burst on a widest virtual pipe (assuming only for the sake of discussion that a highest data rate can be interpreted as a widest virtual pipe).

Even if the proposed combination of *Lee* and *Sindhushayana*, et al. could be made, there is nothing within that combination that teaches the limitations in the claims concerning providing a plurality of permanent virtual pipes where at least one pipe is wider than others with at least one burst segment of each data burst scheduled for transmission on the widest of the virtual pipes. Because that is completely missing from the proposed combination, there is no *prima* facie case of obviousness.

The rejection must be withdrawn.

Respectfully submitted,

CARLSON, GASKEY & OLDS

By:

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Dated: July 20, 2009

#### **CERTIFICATE OF FACSIMILE**

I hereby certify that this Pre-Appeal Brief Request for Review, relative to Application Serial No. 10/717,065, is being facsimile transmitted to the Patent and Trademark Office (Fax No. (\$71) 273-8300) on July 30, 3000

Theresa Palmateer